

## BACKGROUND

### [0001] 1. Field of the Invention

[0002] This invention relates to topical application of a cream, gel, or other vehicle which contains substances such as L-arginine which delivers these substances into tissue for the purpose of producing beneficial effects such as growth of hair on the scalp, healing of leg ulcers secondary to diabetes or confinement to bed and overcoming erectile dysfunction, as well as beneficial effects through restoration of natural mechanisms based on improvement of local blood supply.

### [0003] 2. Prior Art

[0004] Approaches to improving local blood flow have been many and consist of both systemic and topical approaches. Many beneficial effects could be obtained should improvement in local blood flow be achieved since impairment of local blood flow causes a variety of negative consequences.

[0005] It has been recognized that deficiencies in blood flow in the scalp occur in male pattern baldness. See G. Duplechain et al., J. Louisiana State Med Soc. 146, 7 (1994); P. Klemp et al., J Invests Dermatol 95, 725 (1989); S. Toshitani et al., J Dermatol 17, 240 (1990). Topical minoxidil has been used as an agent for hair growth in male pattern baldness with varying results. Though the suggestion has been made that minoxidil operates through increase in the blood supply to the scalp, many investigators have failed

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